

Search  for   

Limits

Preview/Index

History

Clipboard

Details

Range: from  to ☐ Reverse complemented strand

Features:

☐ SNP☐ CDD☒ MGC☐ HPRD☐ 1: [Z49227](#). Reports A.thaliana mRNA f...[gi:6469339][Links](#)

LOCUS ATANTMR 2181 bp mRNA linear PLN 26-NOV-1999  
DEFINITION A.thaliana mRNA for adenine nucleotide translocase.  
ACCESSION Z49227  
VERSION Z49227.2 GI:6469339  
KEYWORDS adenine nucleotide translocase.  
SOURCE Arabidopsis thaliana (thale cress)  
ORGANISM Arabidopsis thaliana  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.  
REFERENCE 1  
AUTHORS Kampfenkel,K., Mohlmann,T., Batz,O., Van Montagu,M., Inze,D. and Neuhaus,H.E.  
TITLE Molecular characterization of an Arabidopsis thaliana cDNA encoding a novel putative adenylate translocator of higher plants  
JOURNAL FEBS Lett. 374 (3), 351-355 (1995)  
MEDLINE [96069943](#)  
PUBMED [7589569](#)  
REMARK (sites)  
REFERENCE 2  
AUTHORS Kampfenkel,K.K.  
TITLE Direct Submission  
JOURNAL Submitted (05-MAY-1995) Kampfenkel K.K., Universiteit Gent, Laboratorium voor Genetika, K.L. Ledeganckstraat 35, Gent, Belgium, B-9000 Gent  
REMARK revised by [3]  
REFERENCE 3 (bases 1 to 2181)  
AUTHORS Kampfenkel,K.K.  
TITLE Direct Submission  
JOURNAL Submitted (26-NOV-1999) Kampfenkel K.K., Universiteit Gent, Laboratorium voor Genetika, K.L. Ledeganckstraat 35, Gent, Belgium, B-9000 Gent  
COMMENT On Nov 27, 1999 this sequence version replaced gi:1051108.  
FEATURES  
source Location/Qualifiers  
1..2181  
/organism="Arabidopsis thaliana"  
/mol\_type="mRNA"  
/strain="var. Columbia"  
/db\_xref="taxon:3702"  
/clone="c23"  
/tissue\_type="whole seedling"  
/clone\_lib="LambdaYES"  
/dev\_stage="seedling"  
CDS 110..1981  
/codon\_start=1  
/product="adenine nucleotide translocase"  
/protein\_id="CAA89201.2"  
/db\_xref="GI:6469340"  
/db\_xref="GOA:Q39002"  
/db\_xref="UniProt/Swiss-Prot:Q39002"  
/translation="MEAVIQTRGLLSLPTKPIGVRSQLPQSHGLKQRLFAAKPRNLHG  
CLYPLTGTRNFKPLSQPCMGFRFPPTKREAPSSYARRRGWCWRRSCLRRSDSAAVVASR  
KIFGVEVATLKKIIPGLMFFCILFNFTILRDTKDVLVVTAKGSSAEIIPFLKTWVNL  
PMAIGFMLLYTKLSNVLSKKALFYTVIVPFIIFYGGFGFVMYPLSNYIHPEALADKLL  
TTLGPRFMGPAILRIWSFCLFYVMAELWGSVVSVLFWGFANQITTVEAKKFYPLF  
GLGANVALIFSGRTVKYFSNLKRNLGPGVDGAVSLKAMMSIVVGMGLAICLLYWWVN  
RVVPLPTRSKNKKPKMGTMESLKLFLVSSPYIRDLATLVVAYGISINLVEVTWKSCL  
KAQFPSPNEYSAPMGDFSTCTGVATFTMMLLSQYVFNKYGWGVAAKITPTVLLLTGVA

FFSLILFGGPFAPLVAKLGMTPLLAUVYVGALQNI FSKSAKYSLFDPCKEMAYIPLDE  
DTKVKGKAAIDVVCNPLGKSGGALIQQFMILSFGSLANSTPYLGMILLVIVTAWLAAA  
KSLEGGQFNLSLRSEEELEKEMERASSVKIPVVSQDESNGSLGESPPSSPEKSAPTNL"

## ORIGIN

```
1 ctacgtcagg gcaaccagtc tcctttatca tctctccatc tcatcactct cctccatttc
61 tctccatttc tttcttctgt gtatcagcgg gagagagtga aatagagaga tggagctgt
121 gattcaaacc agagggtctc tctctttacc caccaaacc atcggagtga gaagccaact
181 tcagccttcc catggcttaa agcagagact tttcgcgcg aagccaagaa atctacatgg
241 gtgtctctat cctttaacgg gcacaagaaa tttcaaacct ttgagccaac cctgcatggg
301 atttcgattt ccacaaaaga gagaagcacc gagttcatat gcaaggcggg ggcgcggctg
361 ctggcgacgg agctgtcttc ggcgaagcga ttccgcagct gttgtagcct cgcggaagat
421 tttcgggtgtg gaggttgcaa ccttgaaaaa gattatccct ttaggattga tgttcttttg
481 tattcttttc aattacacaa ttctgaggga taaaaaggat gtcttggtgg tgacggcgaa
541 aggaagttct gctgagatta tacctttctt gaagacttgg gtgaatcttc ctatggccat
601 tgggtttatg ctctcttaca ctaactctc caatgttctc tccaagaagg ctctgtttta
661 cactgttatt gtccctttca tcatctactt tgggggcttt ggtttcgtca tgtaccctct
721 cagcaactat attcaccggg aagctctcgc agataagctc cttacaaccc tcggcccaag
781 attcatgggt cctattgcaa tattgcggat ttggagtctt tgtttgtttt atgttatggc
841 tgagctttgg ggtagtgtgg tggctctcag tctcttctgg ggctttgcta atcagatcac
901 aactgtggat gaagccaaga aattctatcc tttgttcgga cttggagcca atgttgactt
961 gattttctca ggaagaaccg tgaaataact ctctaacttg agaaagaatc ttggtcctgg
1021 agttgacggc tgggcagttt cgttgaaagc catgatgagc attgtggtgg gaatgggact
1081 cgccatttgt ctctctattt ggtgggtcaa tagatatgtt cctcttccaa cccgtagcaa
1141 gaacaagaag gagaaaccga agatgggaac gatggaagc ttgaagttct tggatatcat
1201 accatacatt agagatcttg ctactttagt ggtggcatac ggtatttagt tcaatcttgt
1261 ggaagtcaca tggaaatcaa agcttaaagc tcagttccct agcccgaaat agtactcagc
1321 atttatggga gacttctcaa cctgcacggg tgttgcaaca ttcacaatga tgcttctcag
1381 ccaatacgtt ttcaataagt atggttgggg agtagctgca aagatcacc caactgttct
1441 gctattgact ggtgttgctg tcttctctct aatattgttt ggcgccccat tcgcaccact
1501 tgttgccaag cttggtatga caccgctact tgcagctgtg tatgtcgggt cccttcagaa
1561 tatcttcagc aagagtgcca agtacagctt gttcgaccct tgcaaaagaa tggcctatat
1621 cccattggat gaggacacca aggttaaagg caaagctgct attgacgtgg tctgcaaccc
1681 attagggaaa tcagggggag ctttaataca gcagttcatg atcttatcct ttggatcact
1741 agcgaattca acgccgtatc taggaatgat cttgttggtt attgtcactg cgtggttagc
1801 tgcagctaag tcgctggagg gacagttcaa cagcttgcgg tctgaagaag agcttgagaa
1861 ggaatggag agagcttcat cgtggaagat ccctgtcgtg tctcaggacg aaagcggaaa
1921 cggttccctt ggagaatctc ctagcagttc accggagaaa tctgctccca ccaacttata
1981 aaaagttttt ttttgatatt tgggtttgtt gggggggaaa gaaagaagga tgatgaatca
2041 aaaataagat tttgagagca gtctctcaaa caatcgccct tttgcaccac tcaactctta
2101 tagtctgtag ctttttttcc ttacattctt ttcagttcaa tgtggtttca cgttctaagt
2161 ttcttcttaa aaaaaaaaaa a
```

//

[Disclaimer](#) | [Write to the Help Desk](#)  
NCBI | NLM | NIH

Jan 27 2005 17:14:21

## Refine Search

### Search Results -

Terms	Documents
L4 and plastidial	0

Database: 
 US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search: L8

[Refine Search](#)

[Recall Text](#)

[Clear](#)

[Interrupt](#)

### Search History

DATE: Friday, January 28, 2005   [Printable Copy](#)   [Create Case](#)

#### Set Name   Query

side by side

*DB=USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR*

[L8](#)   L4 and plastidial

[L7](#)   L4 and plastid

[L6](#)   L4 and plant

[L5](#)   L4 and Arabidopsis

[L4](#)   ATP/ADP or ADP/ATP and transformation

*DB=USPT; PLUR=YES; OP=OR*

[L3](#)   L1 and translocator.clm.

[L2](#)   L1 and translocator.clm.

[L1](#)   ATP/ADP adj (translocator or transporter) and transformation and plant

#### Hit Count   Set Name

result set

0   [L8](#)

7   [L7](#)

54   [L6](#)

13   [L5](#)

131   [L4](#)

2   [L3](#)

0   [L2](#)

8   [L1](#)

END OF SEARCH HISTORY

\$%^STN;HighlightOn= \*\*\*;HighlightOff=\*\*\* ;

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600RKK

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover!  
NEWS 4 OCT 28 KOREAPAT now available on STN  
NEWS 5 NOV 30 PHAR reloaded with additional data  
NEWS 6 DEC 01 LISA now available on STN  
NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004  
NEWS 8 DEC 15 MEDLINE update schedule for December 2004  
NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness  
alerts (SDIs) affected  
NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness  
alerts (SDIs) affected  
NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness  
alerts (SDIs) affected  
NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness  
alerts (SDIs) affected  
NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB  
NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN  
NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED  
NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and  
February 2005  
NEWS 17 JAN 26 CA/CAPLUS - Expanded patent coverage to include the Russian  
Agency for Patents and Trademarks (ROSPATENT)  
  
NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific

research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:36:12 ON 28 JAN 2005

=> file agricola biosis embase caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'AGRICOLA' ENTERED AT 14:36:34 ON 28 JAN 2005

FILE 'BIOSIS' ENTERED AT 14:36:34 ON 28 JAN 2005

Copyright (c) 2005 The Thomson Corporation.

FILE 'EMBASE' ENTERED AT 14:36:34 ON 28 JAN 2005

COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

FILE 'CAPLUS' ENTERED AT 14:36:34 ON 28 JAN 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=> s (ADP/ATP or ATP/ADP) and (translocator or transporter) and plant and transform?

'ATP' IS NOT A VALID FIELD CODE

'ADP' IS NOT A VALID FIELD CODE

'ATP' IS NOT A VALID FIELD CODE

'ADP' IS NOT A VALID FIELD CODE

'ATP' IS NOT A VALID FIELD CODE

'ADP' IS NOT A VALID FIELD CODE

'ATP' IS NOT A VALID FIELD CODE

'ADP' IS NOT A VALID FIELD CODE

L1 0 (ADP/ATP OR ATP/ADP) AND (TRANSLOCATOR OR TRANSPORTER) AND PLANT AND TRANSFORM?

=> s (ATP(w)translocator or ADP(w)translocator) or (atp(w)transporter or adp(w)transporter) and plant and transform?

L2 308 (ATP(W) TRANSLOCATOR OR ADP(W) TRANSLOCATOR) OR (ATP(W) TRANSPORTER OR ADP(W) TRANSPORTER) AND PLANT AND TRANSFORM?

=> s ((ATP(w)translocator or ADP(w)translocator) or (atp(w)transporter or adp(w)transporter)) and plant and transform?

L3 9 ((ATP(W) TRANSLOCATOR OR ADP(W) TRANSLOCATOR) OR (ATP(W) TRANSPORTER OR ADP(W) TRANSPORTER)) AND PLANT AND TRANSFORM?

=> d l3 1-9 ti

L3 ANSWER 1 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN

TI The N-terminal extension of the ADP- \*\*\*ATP\*\*\* \*\*\*translocator\*\*\* is not involved in targeting to \*\*\*plant\*\*\* mitochondria in vivo.

L3 ANSWER 2 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN  
 TI Structural and functional implications of the instability of the ADP/  
 \*\*\*ATP\*\*\* \*\*\*transporter\*\*\* purified from mitochondria as revealed  
 by FTIR spectroscopy.

L3 ANSWER 3 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN  
 TI The secondary structure of the inhibited mitochondrial ADP/ \*\*\*ATP\*\*\*  
 \*\*\*transporter\*\*\* from yeast analyzed by FTIR spectroscopy.

L3 ANSWER 4 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN  
 TI Altered plastidic ATP/ \*\*\*ADP\*\*\* - \*\*\*transporter\*\*\* activity  
 influences potato (*Solanum tuberosum* L.) tuber morphology, yield and  
 composition of tuber starch.

L3 ANSWER 5 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN  
 TI Occurrence of two plastidic ATP/ \*\*\*ADP\*\*\* \*\*\*transporters\*\*\* in  
*Arabidopsis thaliana* L molecular characterisation and comparative  
 structural analysis of similar ATP/ \*\*\*ADP\*\*\* \*\*\*translocators\*\*\*  
 from plastids and *Rickettsia prowazekii*.

L3 ANSWER 6 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN  
 TI Cloning of the gene encoding the mitochondrial adenine nucleotide carrier  
 of *Schizosaccharomyces pombe* by functional complementation in  
*Saccharomyces cerevisiae*.

L3 ANSWER 7 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN  
 TI The N-terminal extension of the ADP/ \*\*\*ATP\*\*\* \*\*\*translocator\*\*\*  
 is not involved in targeting to \*\*\*plant\*\*\* mitochondria in vivo.

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Transgenic \*\*\*plants\*\*\* with increased starch and/or oil production  
 expressing the *Arabidopsis thaliana* plastidial ADP/ \*\*\*ATP\*\*\*  
 \*\*\*translocator\*\*\*

L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI The N-terminal extension of the ADP/ \*\*\*ATP\*\*\* \*\*\*translocator\*\*\*  
 is not involved in targeting to \*\*\*plant\*\*\* mitochondria in vivo

=> d l3 4 5 8 ibib ab

L3 ANSWER 4 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN  
 ACCESSION NUMBER: 1999:67822 BIOSIS  
 DOCUMENT NUMBER: PREV199900067822  
 TITLE: Altered plastidic ATP/ \*\*\*ADP\*\*\* - \*\*\*transporter\*\*\*  
 activity influences potato (*Solanum tuberosum* L.) tuber  
 morphology, yield and composition of tuber starch.  
 AUTHOR(S): Tjaden, Joachim; Moehlmann, Torsten; Kampfenkel, Karlheinz;  
 Henrichs, Gudrun; Neuhaus, H. Ekkehard [Reprint author]  
 CORPORATE SOURCE: Pflanzenphysiol., Fachbereich Biol./Chem., Univ.  
 Osnabrueck, Barbarastr. 11, D-49069, Osnabrueck, Germany  
 SOURCE: Plant Journal, (Dec., 1998) Vol. 16, No. 5, pp. 531-540.  
 print.  
 ISSN: 0960-7412.  
 DOCUMENT TYPE: Article  
 LANGUAGE: English

ENTRY DATE: Entered STN: 16 Feb 1999  
Last Updated on STN: 16 Feb 1999

AB The metabolic function of the plastidic ATP/ \*\*\*ADP\*\*\*  
\*\*\*transporter\*\*\* (AATP) in heterotrophic plastids was examined in  
transgenic potato \*\*\*plants\*\*\* that exhibited increased or decreased  
amounts of the protein. Altered mRNA levels correlated with activities of  
the plastidic ATP/ \*\*\*ADP\*\*\* \*\*\*transporter\*\*\*. Potato tubers with  
decreased plastidic ATP/ \*\*\*ADP\*\*\* \*\*\*transporter\*\*\* activities  
exhibited reduced starch contents whereas sense lines accumulated  
increased amounts of tuber starch. Starch from wild-type tubers had an  
amylose content of 18.8%, starch from antisense \*\*\*plants\*\*\* contained  
11.5-18.0% amylose, whereas starch from sense \*\*\*plants\*\*\* had levels  
of 22.7-27.0%. The differences in physiological parameters were  
accompanied with altered tuber morphology. These changes are discussed  
with respect to the stromal ATP supply during starch biosynthesis.

L3 ANSWER 5 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN  
ACCESSION NUMBER: 1998:175430 BIOSIS  
DOCUMENT NUMBER: PREV199800175430  
TITLE: Occurrence of two plastidic ATP/ \*\*\*ADP\*\*\*

\*\*\*transporters\*\*\* in *Arabidopsis thaliana* L molecular  
characterisation and comparative structural analysis of  
similar ATP/ \*\*\*ADP\*\*\* \*\*\*translocators\*\*\* from  
plastids and *Rickettsia prowazekii*.

AUTHOR(S): Moehlmann, Torsten; Tjaden, Joachim; Schwoeppe, Christian;  
Winkler, Herbert H.; Kampfenkel, Karlheinz; Neuhaus, H.  
Ekkehard [Reprint author]

CORPORATE SOURCE: Pflanzenphysiol., Univ. Osnabrueck, Barbarastr. 11, D-49069  
Osnabrueck, Germany

SOURCE: European Journal of Biochemistry, (March, 1998) Vol. 252,  
No. 3, pp. 353-359. print.  
CODEN: EJBCAI. ISSN: 0014-2956.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 20 Apr 1998  
Last Updated on STN: 20 Apr 1998

AB Recently, we sequenced a cDNA clone from *Arabidopsis thaliana* L. encoding  
an ATP/ \*\*\*ADP\*\*\* \*\*\*transporter\*\*\* protein (AATP1) located in the  
plastid envelope membrane. The deduced amino acid sequence of AATP1  
exhibits a high degree of similarity (>66%) to the ATP/ \*\*\*ADP\*\*\*  
\*\*\*transporter\*\*\* from the obligate intracellular gram-negative  
bacterium *Rickettsia prowazekii*. Here we report a second plastidic  
ATP/ADP carrier from *A. thaliana* (AATP2). As deduced from the amino acid  
sequence, AATP2 exhibits 77.6% identity to AATP1 and 36% to the  
*rickettsial* protein. Hydropathy analysis indicates that all three  
translocators are highly hydrophobic membrane proteins, which exhibit  
marked similarities and differences. The AATP1 translocator lacks the  
sixth transmembrane domain that is present in AATP2 and the bacterial  
transporter in *R. prowazekii*. In contrast to AATP1 and the bacterial  
transport protein, only AATP2 exhibits a truncated C-terminal end. To  
compare the general biochemical properties of AATP2 with the known  
transport properties of AATP1 we cloned the entire AATP2 cDNA into plasmid  
pJT118, leading to the presence of an additional N-terminal histidine tag  
of 10 amino acids. For heterologous expression of His10-AATP2 we chose  
the *Escherichia coli* strain C43, which was reported recently to allow  
overproduction of eukaryotic membrane transport proteins. After  
\*\*\*transformation\*\*\* and subsequent induction by isopropylthio-2-D-

galactopyranoside intact *E. coli* cells harbouring plasmid pJT118 showed import of radioactively labelled ATP and ADP. As deduced from a Lineweaver-Burk analysis His10-AATP2 exhibited apparent  $K_m$  values for ATP and ADP of 22  $\mu\text{M}$  and 20  $\mu\text{M}$ , respectively. Import of ADP into His10-AATP2-expressing *E. coli* cells occurred at a rate of 24 nmol cntdot mg protein-1 cntdot h-1, which was about threefold faster than import of ATP. These biochemical characteristics are similar to transport properties of the heterologously expressed His10-AATP1 protein.

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:736889 CAPLUS

DOCUMENT NUMBER: 132:942

TITLE: Transgenic \*\*\*plants\*\*\* with increased starch and/or oil production expressing the Arabidopsis thaliana plastidial ADP/ \*\*\*ATP\*\*\*  
\*\*\*translocator\*\*\*

INVENTOR(S): Neuhaus, Ekkehard; Moehlmann, Torsten;  
Graeve-Kampfenkel, Karl-Heinz; Tjaden, Joachim;  
Schell, Jozef; Martini, Norbert

PATENT ASSIGNEE(S): Planttec Biotechnologie G.m.b.H. Forschung &  
Entwicklung, Germany; Max-Planck-Gesellschaft Zur  
Forderung Der Wissenschaften E.V.

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9958654	A2	19991118	WO 1999-EP3292	19990512
WO 9958654	A3	20000309		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2328394	AA	19991118	CA 1999-2328394	19990512
AU 9942610	A1	19991129	AU 1999-42610	19990512
BR 9910408	A	20010109	BR 1999-10408	19990512
EP 1078088	A2	20010228	EP 1999-939765	19990512
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002514412	T2	20020521	JP 2000-548445	19990512
PRIORITY APPLN. INFO.:			DE 1998-19821442	A 19980513
			WO 1999-EP3292	W 19990512

AB The invention relates to transgenic \*\*\*plant\*\*\* cells and \*\*\*plants\*\*\* which, compared to wild type cells or \*\*\*plants\*\*\*, exhibit an increased yield, esp. an increased oil and/or starch content, and which preferably synthesize a modified starch with increased amylose content. The described \*\*\*plants\*\*\* exhibit an increase or a decrease of the plastidial ADP/ \*\*\*ATP\*\*\* \*\*\*translocator\*\*\* activity as a



result of the \*\*\*transformation\*\*\* with Arabidopsis thaliana ADP/  
\*\*\*ATP\*\*\* \*\*\*translocator\*\*\* .

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	61.66	61.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

STN INTERNATIONAL LOGOFF AT 14:44:13 ON 28 JAN 2005